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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Shanks *et al.*

Appl. No. 10/072,885

Filed: February 12, 2002

For: **Method, System, and Apparatus
for Binary Traversal of a Tag
Population**

Confirmation No. 2429

Art Unit: 2632

Examiner: *To Be Assigned*

Atty. Docket: 1689.0210001

Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97((b)). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to

the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. Attached is our PTO-2038 Credit Card Payment Form **[OR]** Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- 5. Documents AN2, AO2, and AA7 were cited in a search report by a foreign patent office in a counterpart foreign application. A copy of the search report is enclosed as document AS1 on the attached PTO Form 1449.
- 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- 7. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey S. Weaver
Attorney for Applicants
Registration No. 45,608

Date: 2-26-03

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1689.0210001APPLICATION NO.
10/072,885APPLICANT
Shanks et al.GROUP
2632FILING DATE
February 12, 2002

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	3,520,406	07/1970	Turner			
	AB1	3,689,885	09/1972	Kaplan et al.			
	AC1	4,071,908	01/1978	Brophy et al.			
	AD1	4,225,953	09/1980	Simon et al.			
	AE1	4,418,411	11/1983	Strietzel			
	AF1	4,471,345	09/1984	Barrett, Jr.			
	AG1	4,495,496	01/1985	Miller, III			
	AH1	4,533,871	08/1985	Boetzkes			
	AI1	4,598,275	07/1986	Ross et al.			
	AJ1	4,636,950	01/1987	Caswell et al.			
	AK1	4,656,463	04/1987	Anders et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	✓ EP 0 467 036	01/1992	Europe	G01S	13/74	Yes No
	AM1	✓ EP 0 494 114	07/1992	Europe	G07C	9/00	Yes No
	AN1	✓ EP 0 496 986	08/1992	Europe	H04L	1/16	Yes No
	AO1	✓ EP 0 578 457	01/1994	Europe	G06K	17/00	Yes No
	AP1	✓ EP 0 585 132	03/1994	Europe	G01S	13/78	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Plug and Play ISA Specification - Version 1.0a, Intel Corporation and Microsoft Corporation, May 5, 1994, pages 1-65.
AS	1	Copy of International Search Report issued October 1, 2002 for Appln. No. PCT/US02/03989, 8 pages.
AT	1	Wade, W., "Micron To Acquire ID Tech, ID Micro," Today's Electronic News, Gainers Publication, Vol. 43, No. 2183, September 1, 1997, page 16.

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February 12, 2002GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA2	4,862,160	08/1989	Ekchian et al.			
	AB2	4,931,788	06/1990	Creswick			
	AC2	5,124,699	06/1992	Tervoert et al.			
	AD2	5,214,409	05/1993	Beigel			
	AE2	5,245,534	09/1993	Waterhouse et al.			
	AF2	5,266,925	11/1993	Vercellotti et al.			
	AG2	5,289,372	02/1994	Guthrie et al.			
	AH2	5,313,052	05/1994	Watanabe et al.			
	AI2	5,339,073	08/1994	Dodd et al.			
	AJ2	5,356,516	10/1994	Ashby et al.			
	AK2	5,365,551	11/1994	Snodgrass et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL2	✓ EP 0 598 624	05/1994	Europe	G01S	13/02	Yes No
	AM2	✓ EP 0 615 285	09/1994	Europe	H01L	21/60	Yes No
	AN2	✓ EP 0 702 323 A2	03/1996	Europe	G06K	17/00	Yes No
	AO2	✓ EP 0 702 324 A2	03/1996	Europe	G06K	17/00	Yes No
	AP2	✓ WO 93/05485	03/1993	PCT	G07G	1/12	Yes No

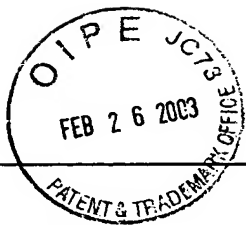
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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PUBLICATION NO.
16769,885

APPLICANT
Shanks et al.

FILING DATE
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2632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA3	5,390,360	02/1995	Scop et al.			
	AB3	5,410,315	04/1995	Huber			
	AC3	5,420,577	05/1995	Kim et al.			
	AD3	5,430,441	07/1995	Bickley et al.			
	AE3	5,434,572	07/1995	Smith			
	AF3	5,434,775	07/1995	Sims et al.			
	AG3	5,444,223	08/1995	Blama			
	AH3	5,446,447	08/1995	Carney et al.			
	AI3	5,469,142	11/1995	Bergman et al.			
	AJ3	5,478,991	12/1995	Watanabe et al.			
	AK3	5,479,416	12/1995	Snodgrass et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL3	WO 99/26462	06/1999	PCT			Yes No
	AM3	WO 00/26993	05/2000	PCT	H01Q	21/20	Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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2632**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA4	5,489,908	02/1996	Orthmann et al.			
	AB4	5,499,017	03/1996	Beigel			
	AC4	5,500,650	03/1996	Snodgrass et al.			
	AD4	5,515,053	05/1996	Hecht et al.			
	AE4	5,519,381	05/1996	Marsh et al.			
	AF4	5,528,222	06/1996	Moskowitz et al.			
	AG4	5,528,232	06/1996	Verma et al.			
	AH4	5,537,105	07/1996	Marsh et al.			
	AI4	5,539,394	07/1996	Cato et al.			
	AJ4	5,539,775	07/1996	Tuttle et al.			
	AK4	5,541,928	07/1996	Kobayashi et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA5	5,550,547	08/1996	Chan et al.			
	AB5	5,557,280	09/1996	Marsh et al.			
	AC5	5,566,441	10/1996	Marsh et al.			
	AD5	5,576,692	11/1996	Tompkins et al.			
	AE5	5,583,819	12/1996	Roesner et al.			
	AF5	5,583,850	12/1996	Snodgrass et al.			
	AG5	5,591,951	01/1997	Doty			
	AH5	5,602,538	02/1997	Orthmann et al.			
	AI5	5,627,517	05/1997	Theimer et al.			
	AJ5	5,627,544	05/1997	Snodgrass et al.			
	AK5	5,640,151	06/1997	Reis et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA6	5,646,607	07/1997	Schürmann et al.			
	AB6	5,648,765	07/1997	Cresap et al.			
	AC6	5,648,767	07/1997	O'Connor et al.			
	AD6	5,673,037	09/1997	Cesar et al.			
	AE6	5,680,459	10/1997	Hook et al.			
	AF6	5,686,888	11/1997	Welles, II et al.			
	AG6	5,686,902	11/1997	Reis et al.			
	AH6	5,689,239	11/1997	Turner et al.			
	AI6	5,742,618	04/1998	Lowe			
	AJ6	5,774,876	06/1998	Woolley et al.			
	AK6	5,798,693	08/1998	Engellenner			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL6						Yes No
	AM6						Yes No
	AN6						Yes No
	AO6						Yes No
	AP6						Yes No

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	AA7	5,856,788	01/1999	Walter et al.			
	AB7	5,887,176	03/1999	Griffith et al.			
	AC7	5,917,422	06/1999	Adamec et al.			
	AD7	5,959,568	09/1999	Woolley			
	AE7	5,963,133	10/1999	Monjo			
	AF7	6,002,344	12/1999	Bandy et al.			
	AG7	6,025,780	02/2000	Bowers et al.			
	AH7	6,057,756	05/2000	Engellenner			
	AI7	6,058,374	05/2000	Guthrie et al.			
	AJ7	6,354,493 B1	03/2002	Mon			
	AK7	6,388,569 B1	05/2002	Engellenner			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AO7						Yes No
	AP7						Yes No

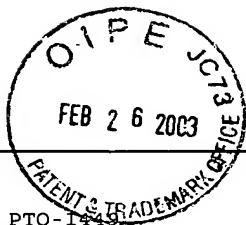
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	AA8	5,030,807	07/1991	Landt et al.			
	AB8	5,912,632	06/1999	Dieska et al.			
	AC8	6,097,347	08/2000	Duan et al.			
	AD8	6,215,401 B1	04/2001	Brady et al.			
	AE8	6,271,793 B1	08/2001	Brady et al.			
	AF8	6,286,762 B1	09/2001	Reynolds et al.			
	AG8						
	AH8						
	AI8						
	AJ8						
	AK8						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL8						Yes No
	AM8						Yes No
	AN8						Yes No
	AO8						Yes No
	AP8						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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